IB2004/051275

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01D53/00 B01E B01J19/12 F01N3/20 C02F1/32 B01D53/92 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) BO1D CO2F BOIJ FOIN Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ' Citation of document, with indication, where appropriate, of the relevant passages X US 6 194 821 B1 (NAKAMURA MASARU) 1 27 February 2001 (2001-02-27) column 1, lines 44-53; claims 1-9 2-10 Α column 6, line 44 - column 7, line 5 column 10, lines 46-55 column 14, lines 12-31 DE 43 27 081 A (UNIV SCHILLER JENA) 1-10 Α 16 February 1995 (1995-02-16) column 1, lines 6-11 column 2, lines 26-33 column 2, lines 57-61 1-10 DE 43 07 204 A (UNIV SCHILLER JENA) Α 15 September 1994 (1994-09-15) column 2, line 63 - column 3, line 3; claims 1-9 column 3, lines 31-37 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the A document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled document referring to an oral disclosure, use, exhibition or other means in the art. "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the International search 19/10/2004 11 October 2004 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Kanoldt, W

IB2004/051275

	cion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
A	DE 195 07 189 A (STENGELIN GMBH & CO KG) 12 September 1996 (1996-09-12) column 11, lines 12-20; claims 1-29	1-10
A	EP 1 195 185 A (YAMAHA CORP) 10 April 2002 (2002-04-10) paragraphs '0151! - '0153!; claims 1-11	1-10
A	DE 197 12 305 A (DUESSELDORFER CONSULT GMBH) 1 October 1998 (1998-10-01) claims 1-23	1-10
A	US 6 047 543 A (CHRISTELLER DAVID ET AL) 11 April 2000 (2000-04-11) cited in the application the whole document	1-10
A	WO 97/22794 A (LITEX INC ; LOCKHEED CORP (US)) 26 June 1997 (1997-06-26) cited in the application the whole document	1-10

IB2004/051275

						00 1, 00 1E, 0
Patent document dited in search report		Publication date		Patent family member(s)		Publication date
US 6194821	B1	27-02-2001	JP	10216716	Δ	18-08-1998
03 0134021	DI	27-02-2001	JP	11191396		13-07-1999
						20-05-2002
			JP	3282798		
			JP	11329365		30-11-1999
			JP	11319816	Α	24-11-1999
			CA	2244645	A1	26-06-1999
			DE	19836619		12-08-1999
 DE 4327081	 A	16-02-1995	DE	4327081		16-02-1995
DE 4307204	A	15-09-1994 	DE 	4307204		15-09-1994
DE 19507189	A	12-09-1996	DE	19507189	A1	12-09-1996
EP 1195185	Α	10-04-2002	JР	3480440	B2	22-12-2003
			JP	2002113302	Α	16-04-2002
			ĴΡ	2002113461		16-04-2002
			CN	1349931		22-05-2002
			EP	1195185		10-04-2002
			US 	2002060186	A1 	23-05-2002
DE 19712305	Α	01-10-1998	DE	19712305	A1	01-10-1998
			DE	29707912	U1	21-08-1997
US 6047543	A	11-04-2000	US	6029442	Α	29-02-2000
			US	5863413		26-01-1999
			ĂÜ	5542999		14-02-2000
			CA	2338261		03-02-2000
			EP	1101018		23-05-2001
			JP	2002530181		17-09-2002
			WO	0004989	A2	03-02-2000
			US	6357223	B1	19-03-2002
			AU	9603098	Α	27-04-1999
			BR	9813853		19-09-2000
						15-04-1999
			CA	2305238		
			CN	1281528		24-01-2001
			DE	1021643		19-04-2001
			EP	1021643		26-07-2000
			JP	2001519497		23-10-2001
			WO	9918333		15-04-1999
			ÜS	6330794		18-12-2001
			US	6321531		27-11-2001
			ZA	9809145		20-10-1999
			US	6048500		11-04-2000
			US	6264899		24-07-2001
			US	2001028869	A1	11-10-2001
110 0700704	A	26-06-1997	US	5692481		02-12-1997
WO 9722794			US	5806305	5 A	15-09-1998
WU 9/22/94			AU	726650		16-11-2000
WU 9/22/94				1347997		14-07-1997
WU 9/22/94			ΔΙΙ	134/22/		28-12-1999
WU 9/22/94			AU			
WU 9/22/94			BR	961208		
WU 9/22/94			BR CA	961208! 2241110) A1	26-06-1997
WU 9/22/94			BR CA CN	961208! 2241110 128900!) A1 5 A	26-06-1997 28-03-2001
WU 9/22/94			BR CA	961208! 2241110) A1 5 A	26-06-1997 28-03-2001
WU 9/22/94			BR CA CN CN	961208! 2241110 128900! 1209190) A1 5 A) A	26-06-1997 28-03-2001 24-02-1999
WU 9/22/94			BR CA CN CN EP	961208 2241110 128900! 1209190 086860!	A1 5 A 0 A 5 A2	26-06-1997 28-03-2001 24-02-1999 07-10-1998
WU 9/22/94			BR CA CN CN	961208! 2241110 128900! 1209190) A1 5 A) A 5 A2 4 T	26-06-1997 28-03-2001 24-02-1999

IB2004/051275

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9722794	A		WO US US US US US	9722794 A2 6012283 A 6253544 B1 6048500 A 6264899 B1 5863413 A	26-06-1997 11-01-2000 03-07-2001 11-04-2000 24-07-2001 26-01-1999
			US	2001028869 A1	11-10-2001